

**FIG. 1**

| GEARSETS (TOOTH COUNTS OR RATIOS) |        |   |       |      |      |
|-----------------------------------|--------|---|-------|------|------|
|                                   | TYPE   | S | Ps    | Pr   | R    |
| GS1                               | COMPND | 1 | 0.68  | 0.68 | 2.6  |
| GS2                               | SIMPLE | 1 | 0.675 |      | 2.35 |
| GS3                               | SIMPLE | 1 | 0.3   |      | 1.6  |
|                                   |        |   |       |      |      |
|                                   |        |   |       |      |      |
|                                   |        |   |       |      |      |
|                                   |        |   |       |      |      |

**FIG. 2a**

| FIXED CONNECTIONS |        |
|-------------------|--------|
| R3                | INPUT  |
| R1                | OUTPUT |
| R1                | R2     |
| PC1               | PC2    |
|                   |        |
|                   |        |
|                   |        |
|                   |        |
|                   |        |
|                   |        |
|                   |        |
|                   |        |
|                   |        |

**FIG. 2b**

| LEVER PROPORTIONS |      |
|-------------------|------|
| a                 | 1.60 |
| b                 | 2.35 |
| c                 | 1.00 |
| d                 | 1.60 |
| e                 | 1.00 |
| f                 |      |

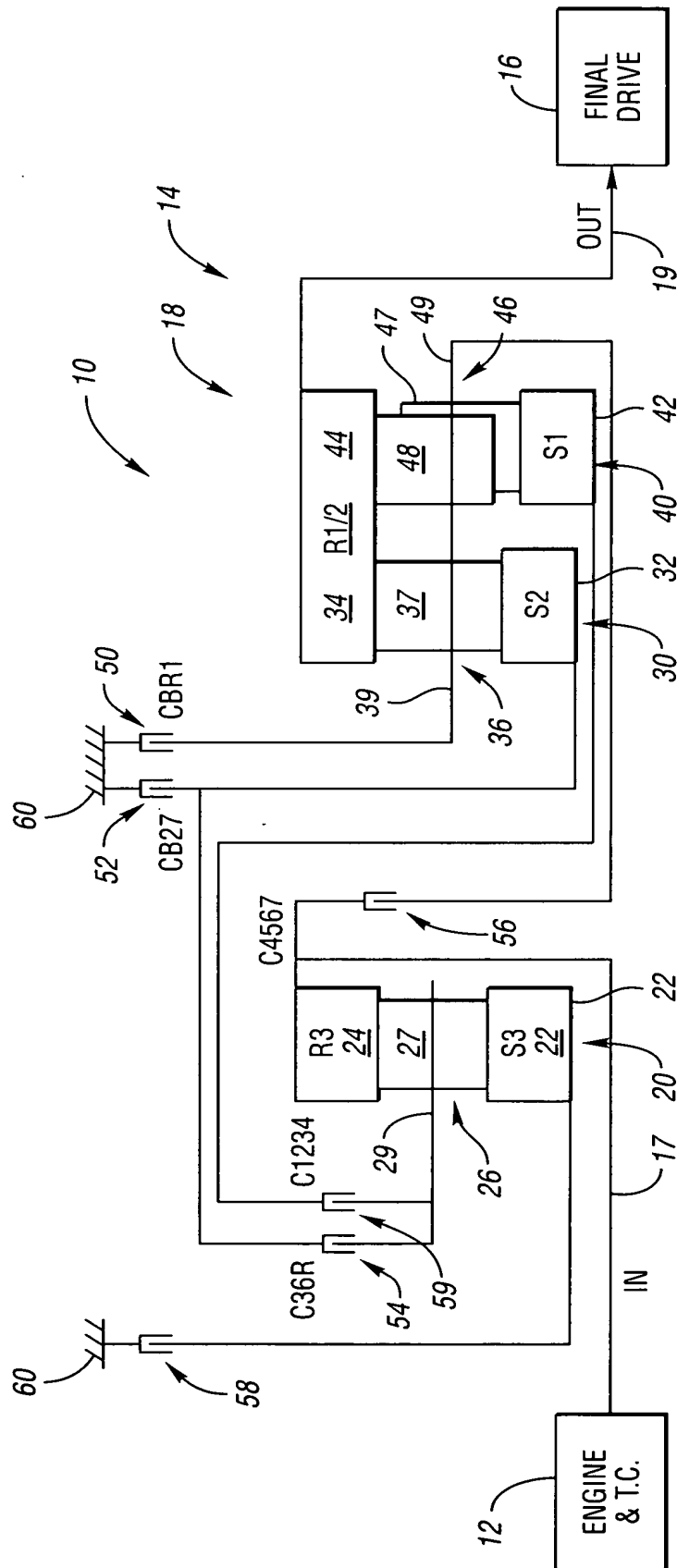
**FIG. 2c**

| R/S RATIOS | R1/S1  | R2/S2  | R3/S3 |       |  |  |
|------------|--------|--------|-------|-------|--|--|
|            | 2.60   | 2.35   | 1.60  |       |  |  |
| P/S RATIOS | P1s/S1 | P1r/S1 | P2/S2 | P3/S3 |  |  |
|            | 0.68   | 0.68   | 0.68  | 0.30  |  |  |

**FIG. 2d**

| GEAR STATE | GEAR RATIO | RATIO STEPS | CBR1<br>(50)<br>CLUTCH | CB27<br>(52)<br>CLUTCH | C356R<br>(54)<br>CLUTCH | C4567<br>(56)<br>CLUTCH | CBR123467<br>(58)<br>CLUTCH | C12345<br>(59)<br>CLUTCH |  |  |  |  |  |  |  |  |
|------------|------------|-------------|------------------------|------------------------|-------------------------|-------------------------|-----------------------------|--------------------------|--|--|--|--|--|--|--|--|
| Rev        | -3.819     |             | X                      |                        | G                       |                         | X                           |                          |  |  |  |  |  |  |  |  |
| N          |            | -0.90       | O                      |                        |                         |                         | O                           |                          |  |  |  |  |  |  |  |  |
| 1st        | 4.225      |             | X                      |                        |                         |                         | X                           | G                        |  |  |  |  |  |  |  |  |
| 2nd        | 2.401      | 1.76        |                        | X                      |                         |                         | X                           | X                        |  |  |  |  |  |  |  |  |
| 3rd        | 1.625      | 1.48        |                        |                        | X                       |                         | X                           | X                        |  |  |  |  |  |  |  |  |
| 4th        | 1.174      | 1.38        |                        |                        |                         | X                       | X                           | X                        |  |  |  |  |  |  |  |  |
| 5th        | 1.000      | 1.17        |                        |                        |                         | X                       | X                           | X                        |  |  |  |  |  |  |  |  |
| 6th        | 0.859      | 1.16        |                        |                        | X                       | X                       | X                           |                          |  |  |  |  |  |  |  |  |
| 7th        | 0.701      | 1.23        |                        | X                      |                         | X                       | X                           |                          |  |  |  |  |  |  |  |  |
| 8th        |            |             |                        |                        |                         |                         |                             |                          |  |  |  |  |  |  |  |  |

FIG. 2e



**FIG. 3**

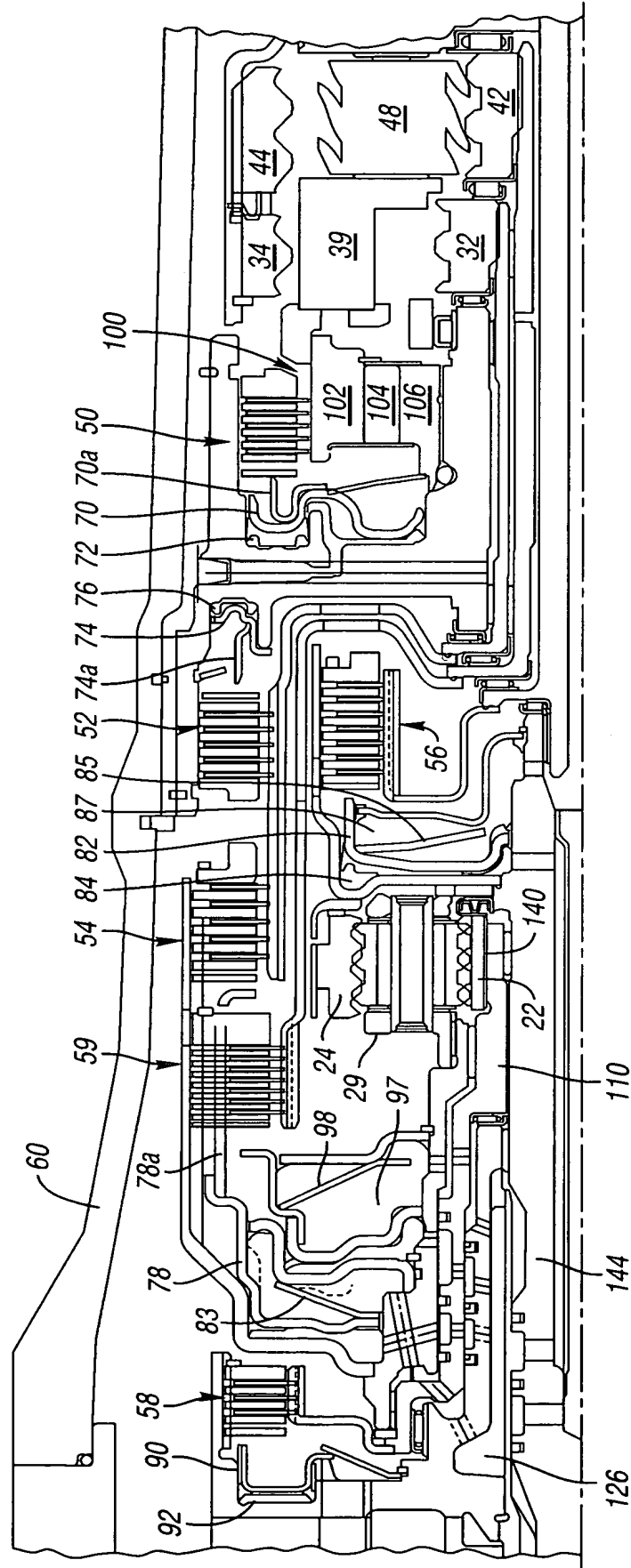


FIG. 4a

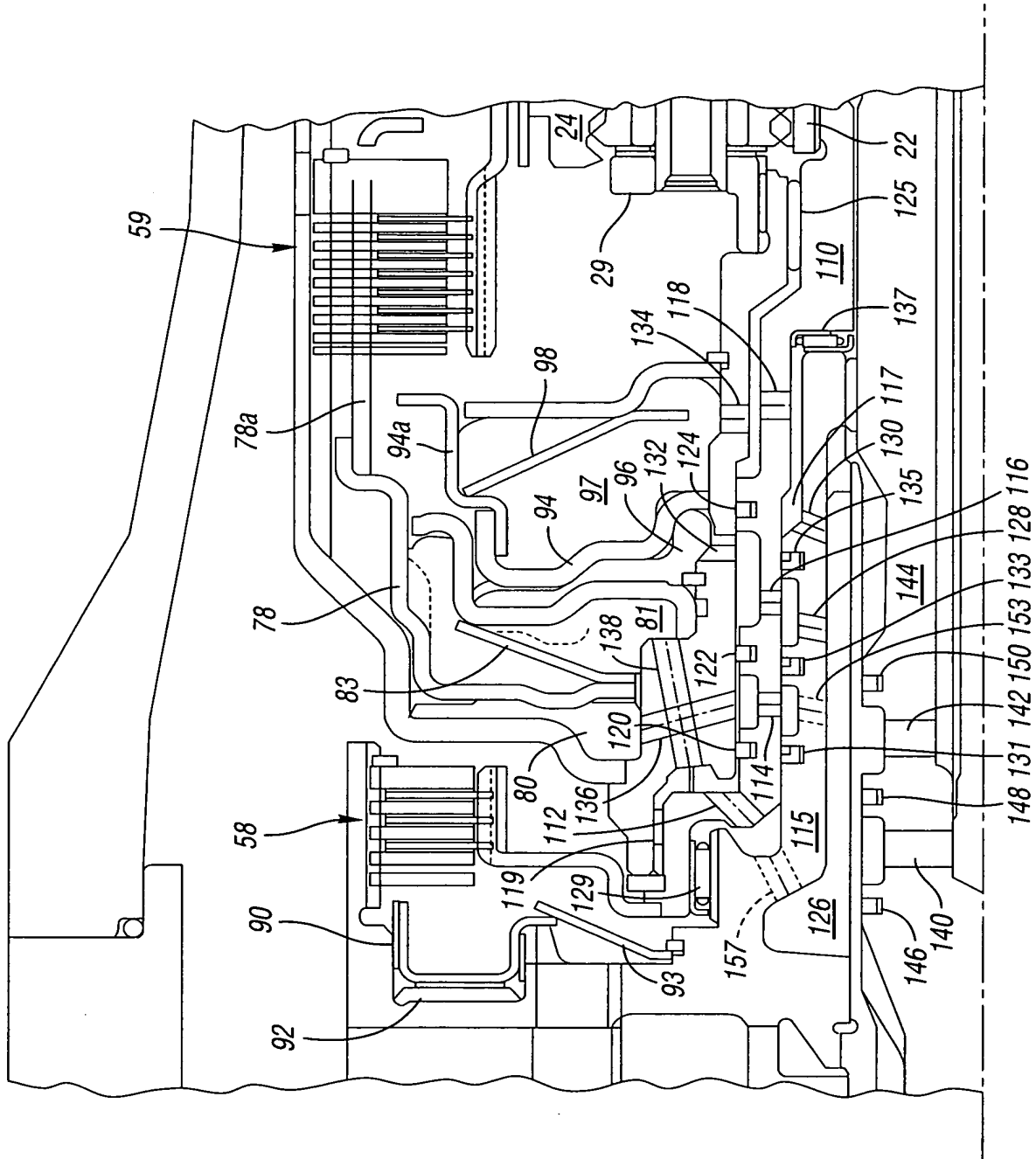


FIG. 4b